ABSTRACT

A firewall (3), controlling network data packet traffic between internal and external networks (1,5,4), comprising filtering means, in dependence of the contents in data fields of a data packet being transmitted between said networks, selecting from a total set of rules a rule applicable to the data packet, whereby said packet is blocked or forwarded through the firewall (3). A 2dimensional address lookup means (8) performs a 2dimensional lookup of the source and destination addresses 10 of the packet in a set of address prefixes, each prefix having a subset of rules of the total set of rules, in order to find a prefix associated with said source and destination addresses, and rule matching means (10), performs - based on the contents of said data fields - a 15 rule matching in order to find the rule applicable to the data packet.

To be published with FIG 2.

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